

## ABSTRACT

Apparatus and methods are described for treatment of morbid obesity using minimally invasive techniques. The apparatus includes a system of components that may be used separately  
5 or in combination for effectively reducing stomach volume, bypassing a portion of the stomach and/or small intestines, reducing nutrient absorption in the stomach and/or small intestines and/or depositing minimally or undigested food farther than normal into the intestines, thereby stimulating intestinal responses. The components described include an artificial stoma device, a gastric sleeve device, an intestinal sleeve device and a combined gastrointestinal sleeve device.